



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
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Prepared for:

The Chemours Company FC, LLC
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
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Report Date: August 30, 2018 12:53

Project: CWK - SC SPB WELL SAMPLING

Account #: 07032
Group Number: 1972569
PO Number: LBIO-67047
State of Sample Origin: NJ

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

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To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
SPBGW2H18-F05-M04B Groundwater	08/02/2018 08:17	9735522
SPBGW2H18-F05-M04B MS Groundwater	08/02/2018 08:17	9735523
SPBGW2H18-F05-M04B MSD Groundwater	08/02/2018 08:17	9735524
SPBGW2H18-F05-M05B Groundwater	08/02/2018 08:35	9735525
SPBGW2H18-G05-M06B Groundwater	08/02/2018 10:12	9735526
SPBGW2H18-G05-M07B Groundwater	08/02/2018 10:35	9735527
SPBGW2H18-EB-18 Groundwater	08/02/2018 08:00	9735528
SPBGW2H18-TB-18 Blank Water	08/02/2018 08:00	9735529
SPBGW2H18-F05-M06B Groundwater	08/02/2018 11:37	9735530

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name: Eurofins Lancaster Laboratories Environmental
 Client: The Chemours Company FC, LLC
 Project: CWK - SC SPB WELL SAMPLING
 Sampling Date(s): 08/02/18
 Laboratory Sample ID(s): 9735522-9735530
 List DKQP Methods Used (e.g., 8260, 8270, et cetera)
 RSKSOP-175 modified; SW-846 8260C; SW-846 8260C SIM; SW-846 8270D

		Yes or No
1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	Yes
1A	Were the method specified handling, preservation, and holding time requirements met?	Yes
1B	<i>EPH Method:</i> Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)?	NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes
3	Were samples received at an appropriate temperature ($\leq 6^{\circ}\text{C}$)?	Yes
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	No
5A	Were reporting limits* specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	Yes
5B	Were these reporting limits met?	No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	Yes
<p>Notes: For all questions to which the response was “No” (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is “No”, the data package does not meet the requirements for “Data of Known Quality.”</p> <p>*The Limit of Quantitation (LOQ) meets requirements for the Reporting Limit (RL) as defined in the NJDEP Data of Known Quality performance standards, unless otherwise noted.</p>		

Christiane S. Sweigart
Senior Specialist

08/30/2018

Project Name: CWK - SC SPB WELL SAMPLING
ELLE Group #: 1972569

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

SW-846 8260C, GC/MS Volatiles

Sample #s: 9735525, 9735527, 9735528, 9735529

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

Sample #s: 9735522, 9735523, 9735524

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

Reporting limits were raised due to interference from the sample matrix.

Sample #s: 9735526, 9735530

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated:
Vinyl Chloride

Batch #: W182231AA (Sample number(s): 9735522-9735530 UNSPK: 9735522)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window: Vinyl Chloride

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window: Chlorobenzene, Ethylbenzene, o-Xylene, Xylene (Total)

The relative percent difference(s) for the following analyte(s) in the MS/MSD were outside acceptance windows: Chlorobenzene, Ethylbenzene

SW-846 8260C SIM, GC/MS Volatiles

Sample #s: 9735522, 9735523, 9735524, 9735525, 9735526, 9735527

Reporting limits were raised due to interference from the sample matrix.

SW-846 8270D, GC/MS Semivolatiles

Sample #s: 9735522, 9735523, 9735524, 9735525, 9735528, 9735530

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

Batch #: 18215WAO026 (Sample number(s): 9735522-9735525, 9735528, 9735530 UNSPK: 9735522)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window:
1,1'-Biphenyl, Diphenyl ether, 4-Aminobiphenyl, 1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 4-Chloroaniline, 2-Methylnaphthalene, 4-Nitroaniline, Naphthalene, Hexachlorobutadiene, Dimethylphthalate, 4-Chlorophenyl-phenylether, Diethylphthalate, Benzidine

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window:
4-Aminobiphenyl, 1-Naphthylamine, 2-Naphthylamine, o-Toluidine, Dibenzofuran, 2-Methylnaphthalene, 2,4-Dimethylphenol, Naphthalene, Hexachlorobutadiene, Dimethylphthalate, Acenaphthene, Fluorene, Diethylphthalate, Benzidine, Carbazole, 4-Nitroaniline, 2-Methylphenol, 2,2'-oxybis(1-Chloropropane)

Batch #: 18216WAY026 (Sample number(s): 9735526-9735527)

The recovery(ies) for the following analyte(s) in the LCS were below the acceptance window:
1,1'-Biphenyl, Diphenyl ether, 4-Aminobiphenyl, 1-Naphthylamine, 2-Naphthylamine, o-Toluidine, 2-Methylnaphthalene, 4-Nitroaniline, Naphthalene, Hexachlorobutadiene, Hexachlorocyclopentadiene, 2-Chloronaphthalene, Dimethylphthalate, 4-Chlorophenyl-phenylether, Diethylphthalate, Benzidine

RSKSOP-175 modified, GC Miscellaneous

Batch #: 182180099A (Sample number(s): 9735522-9735524 UNSPK: 9735522)

The recovery(ies) for the following analyte(s) in the MS and/or MSD were below the acceptance window:
Methane

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Sample Description: SPBGW2H18-F05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735522
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	12 U	12	40	2
11997	Benzene	71-43-2	2	1	2	2
11997	Bromodichloromethane	75-27-4	1 U	1	2	2
11997	Bromoform	75-25-2	1 U	1	8	2
11997	Bromomethane	74-83-9	1 U	1	2	2
11997	2-Butanone	78-93-3	6 U	6	20	2
11997	Carbon Disulfide	75-15-0	2 U	2	10	2
11997	Carbon Tetrachloride	56-23-5	1 U	1	2	2
11997	Chlorobenzene	108-90-7	150	1	2	2
11997	Chloroethane	75-00-3	1 U	1	2	2
11997	Chloroform	67-66-3	1 U	1	2	2
11997	Chloromethane	74-87-3	1 U	1	2	2
11997	Cyclohexane	110-82-7	4 U	4	10	2
11997	1,2-Dibromo-3-chloropropane	96-12-8	4 U	4	10	2
11997	Dibromochloromethane	124-48-1	1 U	1	2	2
11997	1,2-Dibromoethane	106-93-4	1 U	1	2	2
11997	1,2-Dichlorobenzene	95-50-1	2 J	2	10	2
11997	1,3-Dichlorobenzene	541-73-1	2 J	2	10	2
11997	1,4-Dichlorobenzene	106-46-7	12	2	10	2
11997	Dichlorodifluoromethane	75-71-8	1 U	1	2	2
11997	1,1-Dichloroethane	75-34-3	1 U	1	2	2
11997	1,2-Dichloroethane	107-06-2	1 U	1	2	2
11997	1,1-Dichloroethene	75-35-4	1 U	1	2	2
11997	cis-1,2-Dichloroethene	156-59-2	1 U	1	2	2
11997	trans-1,2-Dichloroethene	156-60-5	1 U	1	2	2
11997	1,2-Dichloropropane	78-87-5	1 U	1	2	2
11997	cis-1,3-Dichloropropene	10061-01-5	1 U	1	2	2
11997	trans-1,3-Dichloropropene	10061-02-6	1 U	1	2	2
11997	Ethylbenzene	100-41-4	63	1	2	2
11997	Freon 113	76-13-1	4 U	4	20	2
11997	2-Hexanone	591-78-6	6 U	6	20	2
11997	Isopropylbenzene	98-82-8	9 J	2	10	2
11997	Methyl Acetate	79-20-9	2 U	2	10	2
11997	Methyl Tertiary Butyl Ether	1634-04-4	1 U	1	2	2
11997	4-Methyl-2-pentanone	108-10-1	6 U	6	20	2
11997	Methylcyclohexane	108-87-2	2 U	2	10	2
11997	Methylene Chloride	75-09-2	1 U	1	2	2
11997	Styrene	100-42-5	2 U	2	10	2
11997	1,1,2,2-Tetrachloroethane	79-34-5	1 U	1	2	2
11997	Tetrachloroethene	127-18-4	1 U	1	2	2
11997	Toluene	108-88-3	3	1	2	2
11997	1,2,4-Trichlorobenzene	120-82-1	2 U	2	10	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735522
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260C	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	1 U	1	2	2
11997	1,1,2-Trichloroethane	79-00-5	1 U	1	2	2
11997	Trichloroethene	79-01-6	1 U	1	2	2
11997	Trichlorofluoromethane	75-69-4	1 U	1	2	2
11997	Vinyl Chloride	75-01-4	1 U	1	2	2
11997	m+p-Xylene	179601-23-1	73	1	2	2
11997	o-Xylene	95-47-6	38	1	2	2
11997	Xylene (Total)	1330-20-7	110	1	2	2

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

Reporting limits were raised due to interference from the sample matrix.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l
00527	1,4-Dioxane	123-91-1	1.0 U	1.0

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l
14241	Acenaphthene	83-32-9	84	0.1
14241	Acenaphthylene	208-96-8	0.8	0.1
14241	Acetophenone	98-86-2	4 U	4
14241	4-Aminobiphenyl	92-67-1	5 U	5
14241	Aniline	62-53-3	3 U	3
14241	Anthracene	120-12-7	3	0.1
14241	Atrazine	1912-24-9	2 U	2
14241	Benzaldehyde	100-52-7	3 U	3
14241	Benzidine	92-87-5	20 U	20
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735522
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	110	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.5 J	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	50	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	31	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	63	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735522
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270D						
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	170	1	5	10
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	2,400	10	51	100
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	31	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	20	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	1.1 J	1.0
10602	Ethene	74-85-1	1.1 J	1.0
10602	Methane	74-82-8	2,400	60

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735522
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 11:00	Linda C Pape	2
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182231AA	08/11/2018 10:42	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182231AA	08/11/2018 10:42	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182231AA	08/11/2018 11:00	Linda C Pape	2
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/11/2018 07:04	Brandon K Cordova	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/14/2018 16:28	Kira N Klaassen	10
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/14/2018 16:56	Kira N Klaassen	100
11010	8270D BNA Extraction	SW-846 3510C	1	18215WAO026	08/04/2018 10:30	Mathias Okpo	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 16:54	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/07/2018 18:34	Johanna C Kennedy	20

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9735522
 Sample wt/vol: 245 (g/mL) mL Lab File ID: jh0550.d
 Level: (low/med) LOW Date Received: 08/02/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/04/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/11/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 52 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	7.103	0	
2.90-41-5	[1,1'-Biphenyl]-2-amine	11.363	0	
3.				
4.SVOCTIC	Total SVOC TICs		0	
5.				
6.				
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REVISED

Sample Description: SPBGW2H18-F05-M04B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735523
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260C			ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	230	12	40	2
11997	Benzene	71-43-2	42	1	2	2
11997	Bromodichloromethane	75-27-4	39	1	2	2
11997	Bromoform	75-25-2	38	1	8	2
11997	Bromomethane	74-83-9	32	1	2	2
11997	2-Butanone	78-93-3	260	6	20	2
11997	Carbon Disulfide	75-15-0	40	2	10	2
11997	Carbon Tetrachloride	56-23-5	49	1	2	2
11997	Chlorobenzene	108-90-7	140	1	2	2
11997	Chloroethane	75-00-3	29	1	2	2
11997	Chloroform	67-66-3	40	1	2	2
11997	Chloromethane	74-87-3	27	1	2	2
11997	Cyclohexane	110-82-7	46	4	10	2
11997	1,2-Dibromo-3-chloropropane	96-12-8	42	4	10	2
11997	Dibromochloromethane	124-48-1	40	1	2	2
11997	1,2-Dibromoethane	106-93-4	38	1	2	2
11997	1,2-Dichlorobenzene	95-50-1	39	2	10	2
11997	1,3-Dichlorobenzene	541-73-1	41	2	10	2
11997	1,4-Dichlorobenzene	106-46-7	47	2	10	2
11997	Dichlorodifluoromethane	75-71-8	39	1	2	2
11997	1,1-Dichloroethane	75-34-3	40	1	2	2
11997	1,2-Dichloroethane	107-06-2	37	1	2	2
11997	1,1-Dichloroethene	75-35-4	48	1	2	2
11997	cis-1,2-Dichloroethene	156-59-2	43	1	2	2
11997	trans-1,2-Dichloroethene	156-60-5	44	1	2	2
11997	1,2-Dichloropropane	78-87-5	41	1	2	2
11997	cis-1,3-Dichloropropene	10061-01-5	39	1	2	2
11997	trans-1,3-Dichloropropene	10061-02-6	38	1	2	2
11997	Ethylbenzene	100-41-4	63	1	2	2
11997	Freon 113	76-13-1	46	4	20	2
11997	2-Hexanone	591-78-6	170	6	20	2
11997	Isopropylbenzene	98-82-8	47	2	10	2
11997	Methyl Acetate	79-20-9	34	2	10	2
11997	Methyl Tertiary Butyl Ether	1634-04-4	31	1	2	2
11997	4-Methyl-2-pentanone	108-10-1	180	6	20	2
11997	Methylcyclohexane	108-87-2	48	2	10	2
11997	Methylene Chloride	75-09-2	44	1	2	2
11997	Styrene	100-42-5	41	2	10	2
11997	1,1,2,2-Tetrachloroethane	79-34-5	33	1	2	2
11997	Tetrachloroethene	127-18-4	46	1	2	2
11997	Toluene	108-88-3	41	1	2	2
11997	1,2,4-Trichlorobenzene	120-82-1	37	2	10	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735523
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260C	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	39	1	2	2
11997	1,1,2-Trichloroethane	79-00-5	38	1	2	2
11997	Trichloroethene	79-01-6	41	1	2	2
11997	Trichlorofluoromethane	75-69-4	37	1	2	2
11997	Vinyl Chloride	75-01-4	29	1	2	2
11997	m+p-Xylene	179601-23-1	130	1	2	2
11997	o-Xylene	95-47-6	61	1	2	2
11997	Xylene (Total)	1330-20-7	190	1	2	2

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

Reporting limits were raised due to interference from the sample matrix.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l		
00527	1,4-Dioxane	123-91-1	25	1.0	2.0	5

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l		
14241	Acenaphthene	83-32-9	90	0.1	0.5	1
14241	Acenaphthylene	208-96-8	45	0.1	0.5	1
14241	Acetophenone	98-86-2	39	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	24	3	10	1
14241	Anthracene	120-12-7	46	0.1	0.5	1
14241	Atrazine	1912-24-9	52	2	5	1
14241	Benzaldehyde	100-52-7	30	3	10	1
14241	Benzidine	92-87-5	20 U	20	60	1
14241	Benzo(a)anthracene	56-55-3	45	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	42	0.1	0.5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735523
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	ug/l	
14241	Benzo(b)fluoranthene	205-99-2	41	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	39	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	39	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	41	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	43	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	39	2	5	1
14241	Di-n-butylphthalate	84-74-2	44	2	5	1
14241	Caprolactam	105-60-2	14	5	11	1
14241	Carbazole	86-74-8	100	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	44	0.5	2	1
14241	4-Chloroaniline	106-47-8	36	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	44	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	36	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	42	0.4	1	1
14241	2-Chlorophenol	95-57-8	36	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	39	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	34	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	44	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	42	0.1	0.5	1
14241	Dibenzofuran	132-64-9	70	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	35	3	10	1
14241	2,4-Dichlorophenol	120-83-2	41	0.5	2	1
14241	Diethylphthalate	84-66-2	32	2	5	1
14241	2,4-Dimethylphenol	105-67-9	31	3	10	1
14241	Dimethylphthalate	131-11-3	25	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	48	8	21	1
14241	2,4-Dinitrophenol	51-28-5	95	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	38	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	43	0.5	2	1
14241	Diphenyl ether	101-84-8	38	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	52	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	43	5	11	1
14241	Fluoranthene	206-44-0	46	0.1	0.5	1
14241	Fluorene	86-73-7	76	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	51	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	21	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	25	5	11	1
14241	Hexachloroethane	67-72-1	22	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	40	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M04B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735523
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Isophorone	78-59-1	44	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	110	0.1	0.5	1
14241	2-Methylphenol	95-48-7	33	0.5	2	1
14241	4-Methylphenol	106-44-5	33	0.5	2	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	670 E	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	48	8	21	1
14241	2-Naphthylamine	91-59-8	33	7	21	1
14241	2-Nitroaniline	88-74-4	54	2	7	1
14241	3-Nitroaniline	99-09-2	46	3	7	1
14241	4-Nitroaniline	100-01-6	33	0.9	3	1
14241	Nitrobenzene	98-95-3	40	0.5	2	1
14241	2-Nitrophenol	88-75-5	44	3	10	1
14241	4-Nitrophenol	100-02-7	29 J	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	37	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	51	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	37	5	11	1
14241	Pentachlorophenol	87-86-5	54	1	5	1
14241	Phenanthrene	85-01-8	61	0.1	0.5	1
14241	Phenol	108-95-2	21	0.5	2	1
14241	Pyrene	129-00-0	44	0.1	0.5	1
14241	o-Toluidine	95-53-4	27	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	46	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	44	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	58	1.0
10602	Ethene	74-85-1	68	1.0
10602	Methane	74-82-8	1,800 E	3.0

Sample Comments

State of New Jersey Lab Certification No. PA011

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B MS Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735523
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 11:24	Linda C Pape	2
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182231AA	08/11/2018 11:43	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030C	1	W182231AA	08/11/2018 11:24	Linda C Pape	2
01163	GC/MS VOA Water Prep	SW-846 5030C	2	E182231AA	08/11/2018 11:43	Jason M Long	5
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/11/2018 07:32	Brandon K Cordova	1
11010	8270D BNA Extraction	SW-846 3510C	1	18215WAO026	08/04/2018 10:30	Mathias Okpo	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 17:12	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735524
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260C			ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	210	12	40	2
11997	Benzene	71-43-2	43	1	2	2
11997	Bromodichloromethane	75-27-4	39	1	2	2
11997	Bromoform	75-25-2	37	1	8	2
11997	Bromomethane	74-83-9	31	1	2	2
11997	2-Butanone	78-93-3	270	6	20	2
11997	Carbon Disulfide	75-15-0	41	2	10	2
11997	Carbon Tetrachloride	56-23-5	50	1	2	2
11997	Chlorobenzene	108-90-7	170	1	2	2
11997	Chloroethane	75-00-3	29	1	2	2
11997	Chloroform	67-66-3	40	1	2	2
11997	Chloromethane	74-87-3	27	1	2	2
11997	Cyclohexane	110-82-7	46	4	10	2
11997	1,2-Dibromo-3-chloropropane	96-12-8	44	4	10	2
11997	Dibromochloromethane	124-48-1	39	1	2	2
11997	1,2-Dibromoethane	106-93-4	37	1	2	2
11997	1,2-Dichlorobenzene	95-50-1	40	2	10	2
11997	1,3-Dichlorobenzene	541-73-1	41	2	10	2
11997	1,4-Dichlorobenzene	106-46-7	50	2	10	2
11997	Dichlorodifluoromethane	75-71-8	38	1	2	2
11997	1,1-Dichloroethane	75-34-3	40	1	2	2
11997	1,2-Dichloroethane	107-06-2	36	1	2	2
11997	1,1-Dichloroethene	75-35-4	47	1	2	2
11997	cis-1,2-Dichloroethene	156-59-2	43	1	2	2
11997	trans-1,2-Dichloroethene	156-60-5	44	1	2	2
11997	1,2-Dichloropropane	78-87-5	40	1	2	2
11997	cis-1,3-Dichloropropene	10061-01-5	39	1	2	2
11997	trans-1,3-Dichloropropene	10061-02-6	38	1	2	2
11997	Ethylbenzene	100-41-4	89	1	2	2
11997	Freon 113	76-13-1	46	4	20	2
11997	2-Hexanone	591-78-6	170	6	20	2
11997	Isopropylbenzene	98-82-8	51	2	10	2
11997	Methyl Acetate	79-20-9	35	2	10	2
11997	Methyl Tertiary Butyl Ether	1634-04-4	33	1	2	2
11997	4-Methyl-2-pentanone	108-10-1	180	6	20	2
11997	Methylcyclohexane	108-87-2	49	2	10	2
11997	Methylene Chloride	75-09-2	44	1	2	2
11997	Styrene	100-42-5	41	2	10	2
11997	1,1,2,2-Tetrachloroethane	79-34-5	34	1	2	2
11997	Tetrachloroethene	127-18-4	46	1	2	2
11997	Toluene	108-88-3	43	1	2	2
11997	1,2,4-Trichlorobenzene	120-82-1	40	2	10	2

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735524
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260C			ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	39	1	2	2
11997	1,1,2-Trichloroethane	79-00-5	39	1	2	2
11997	Trichloroethene	79-01-6	41	1	2	2
11997	Trichlorofluoromethane	75-69-4	37	1	2	2
11997	Vinyl Chloride	75-01-4	30	1	2	2
11997	m+p-Xylene	179601-23-1	150	1	2	2
11997	o-Xylene	95-47-6	72	1	2	2
11997	Xylene (Total)	1330-20-7	220	1	2	2

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

Reporting limits were raised due to interference from the sample matrix.

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l		
00527	1,4-Dioxane	123-91-1	27	1.0	2.0	5

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l		
14241	Acenaphthene	83-32-9	94	0.1	0.5	1
14241	Acenaphthylene	208-96-8	47	0.1	0.5	1
14241	Acetophenone	98-86-2	43	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	28	3	10	1
14241	Anthracene	120-12-7	51	0.1	0.5	1
14241	Atrazine	1912-24-9	52	2	5	1
14241	Benzaldehyde	100-52-7	32	3	10	1
14241	Benzidine	92-87-5	20 U	20	61	1
14241	Benzo(a)anthracene	56-55-3	48	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	45	0.1	0.5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735524
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270D			ug/l	ug/l	ug/l	
14241	Benzo(b)fluoranthene	205-99-2	43	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	43	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	42	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	44	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	47	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	41	2	5	1
14241	Di-n-butylphthalate	84-74-2	45	2	5	1
14241	Caprolactam	105-60-2	15	5	11	1
14241	Carbazole	86-74-8	97	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	48	0.5	2	1
14241	4-Chloroaniline	106-47-8	41	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	48	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	39	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	45	0.4	1	1
14241	2-Chlorophenol	95-57-8	41	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	40	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	37	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	45	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	44	0.1	0.5	1
14241	Dibenzofuran	132-64-9	72	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	37	3	10	1
14241	2,4-Dichlorophenol	120-83-2	47	0.5	2	1
14241	Diethylphthalate	84-66-2	35	2	5	1
14241	2,4-Dimethylphenol	105-67-9	34	3	10	1
14241	Dimethylphthalate	131-11-3	30	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	56	8	21	1
14241	2,4-Dinitrophenol	51-28-5	100	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	43	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	49	0.5	2	1
14241	Diphenyl ether	101-84-8	42	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	54	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	45	5	11	1
14241	Fluoranthene	206-44-0	47	0.1	0.5	1
14241	Fluorene	86-73-7	75	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	53	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	23	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	29	5	11	1
14241	Hexachloroethane	67-72-1	24	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	43	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M04B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735524
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Isophorone	78-59-1	48	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	110	0.1	0.5	1
14241	2-Methylphenol	95-48-7	37	0.5	2	1
14241	4-Methylphenol	106-44-5	37	0.5	2	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	690 E	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	51	8	21	1
14241	2-Naphthylamine	91-59-8	36	7	21	1
14241	2-Nitroaniline	88-74-4	56	2	7	1
14241	3-Nitroaniline	99-09-2	44	3	7	1
14241	4-Nitroaniline	100-01-6	37	0.9	3	1
14241	Nitrobenzene	98-95-3	45	0.5	2	1
14241	2-Nitrophenol	88-75-5	54	3	10	1
14241	4-Nitrophenol	100-02-7	31	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	40	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	54	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	40	5	11	1
14241	Pentachlorophenol	87-86-5	61	1	5	1
14241	Phenanthrene	85-01-8	58	0.1	0.5	1
14241	Phenol	108-95-2	23	0.5	2	1
14241	Pyrene	129-00-0	46	0.1	0.5	1
14241	o-Toluidine	95-53-4	32	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	52	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	49	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	57	1.0
10602	Ethene	74-85-1	65	1.0
10602	Methane	74-82-8	2,000 E	3.0

Sample Comments

State of New Jersey Lab Certification No. PA011

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M04B MSD Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735524
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 11:48	Linda C Pape	2
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182231AA	08/11/2018 12:03	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030C	1	W182231AA	08/11/2018 11:48	Linda C Pape	2
01163	GC/MS VOA Water Prep	SW-846 5030C	2	E182231AA	08/11/2018 12:03	Jason M Long	5
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/11/2018 08:00	Brandon K Cordova	1
11010	8270D BNA Extraction	SW-846 3510C	1	18215WAO026	08/04/2018 10:30	Mathias Okpo	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182180099A	08/06/2018 17:31	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M05B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735525
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	7	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	440	5	10	10
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	21	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	5	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	26	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 J	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	5	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 J	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 J	1	5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M05B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735525
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260C			ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	7	0.5	1	1
11997	o-Xylene	95-47-6	2	0.5	1	1
11997	Xylene (Total)	1330-20-7	9	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l		
00527	1,4-Dioxane	123-91-1	0.4 U	0.4	0.8	2

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l		
14241	Acenaphthene	83-32-9	13	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 J	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.3 J	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	20 U	20	61	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M05B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735525
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	2	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.7 J	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	7	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	11	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M05B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735525
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270D						
14241	2-Methylnaphthalene	91-57-6	19	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	150	0.5	3	5
14241	1-Naphthylamine	134-32-7	170	40	110	5
14241	2-Naphthylamine	91-59-8	10 J	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	7	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	2	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	7.9	1.0
10602	Ethene	74-85-1	1.0 J	1.0
10602	Methane	74-82-8	770	30

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M05B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735525
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:35

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 13:01	Linda C Pape	1
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 13:25	Linda C Pape	10
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/08/2018 22:18	Kevin A Sposito	2
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/08/2018 22:18	Kevin A Sposito	2
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182231AA	08/11/2018 13:01	Linda C Pape	1
01163	GC/MS VOA Water Prep	SW-846 5030C	3	W182231AA	08/11/2018 13:25	Linda C Pape	10
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/11/2018 08:28	Brandon K Cordova	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/11/2018 19:18	Kira N Klaassen	5
11010	8270D BNA Extraction	SW-846 3510C	1	18215WAO026	08/04/2018 10:30	Mathias Okpo	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/03/2018 21:29	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/07/2018 01:37	Johanna C Kennedy	10

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9735525
 Sample wt/vol: 247 (g/mL) mL Lab File ID: jh0553.d
 Level: (low/med) LOW Date Received: 08/02/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/04/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/11/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	8.212	0	J
2.90-41-5	[1,1'-Biphenyl]-2-amine	11.815	45	J
3.				
4.SVOCTIC	Total SVOC TICs		45	J
5.				
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REVISED

Sample Description: SPBGW2H18-G05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735526
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	60 U	60	200	10
11997	Benzene	71-43-2	820	5	10	10
11997	Bromodichloromethane	75-27-4	5 U	5	10	10
11997	Bromoform	75-25-2	5 U	5	40	10
11997	Bromomethane	74-83-9	5 U	5	10	10
11997	2-Butanone	78-93-3	30 U	30	100	10
11997	Carbon Disulfide	75-15-0	10 U	10	50	10
11997	Carbon Tetrachloride	56-23-5	5 U	5	10	10
11997	Chlorobenzene	108-90-7	12,000	50	100	100
11997	Chloroethane	75-00-3	5 U	5	10	10
11997	Chloroform	67-66-3	5 U	5	10	10
11997	Chloromethane	74-87-3	5 U	5	10	10
11997	Cyclohexane	110-82-7	20 U	20	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	20 U	20	50	10
11997	Dibromochloromethane	124-48-1	5 U	5	10	10
11997	1,2-Dibromoethane	106-93-4	5 U	5	10	10
11997	1,2-Dichlorobenzene	95-50-1	1,600	10	50	10
11997	1,3-Dichlorobenzene	541-73-1	570	10	50	10
11997	1,4-Dichlorobenzene	106-46-7	1,900	10	50	10
11997	Dichlorodifluoromethane	75-71-8	5 U	5	10	10
11997	1,1-Dichloroethane	75-34-3	5 U	5	10	10
11997	1,2-Dichloroethane	107-06-2	5 U	5	10	10
11997	1,1-Dichloroethene	75-35-4	5 U	5	10	10
11997	cis-1,2-Dichloroethene	156-59-2	5 U	5	10	10
11997	trans-1,2-Dichloroethene	156-60-5	5 U	5	10	10
11997	1,2-Dichloropropane	78-87-5	5 U	5	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	5 U	5	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	5 U	5	10	10
11997	Ethylbenzene	100-41-4	10	5	10	10
11997	Freon 113	76-13-1	20 U	20	100	10
11997	2-Hexanone	591-78-6	30 U	30	100	10
11997	Isopropylbenzene	98-82-8	10 J	10	50	10
11997	Methyl Acetate	79-20-9	10 U	10	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	5 U	5	10	10
11997	4-Methyl-2-pentanone	108-10-1	30 U	30	100	10
11997	Methylcyclohexane	108-87-2	10 U	10	50	10
11997	Methylene Chloride	75-09-2	5 U	5	10	10
11997	Styrene	100-42-5	10 U	10	50	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	5 U	5	10	10
11997	Tetrachloroethene	127-18-4	5 U	5	10	10
11997	Toluene	108-88-3	15	5	10	10
11997	1,2,4-Trichlorobenzene	120-82-1	110	10	50	10

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735526
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260C	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	5 U	5	10	10
11997	1,1,2-Trichloroethane	79-00-5	5 U	5	10	10
11997	Trichloroethene	79-01-6	5 U	5	10	10
11997	Trichlorofluoromethane	75-69-4	5 U	5	10	10
11997	Vinyl Chloride	75-01-4	8 J	5	10	10
11997	m+p-Xylene	179601-23-1	38	5	10	10
11997	o-Xylene	95-47-6	5 U	5	10	10
11997	Xylene (Total)	1330-20-7	38	5	10	10

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for: 1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: Vinyl Chloride

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l
00527 1,4-Dioxane	123-91-1	4.0 U	4.0	8.0

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l
14241 Acenaphthene	83-32-9	2	0.1	0.5
14241 Acenaphthylene	208-96-8	0.1 U	0.1	0.5
14241 Acetophenone	98-86-2	4 U	4	10
14241 4-Aminobiphenyl	92-67-1	19	5	11
14241 Aniline	62-53-3	290	30	100
14241 Anthracene	120-12-7	0.2 J	0.1	0.5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-G05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735526
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	22 J	20	60	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	9 J	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	11	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	14	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	11	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.7 J	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	5	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	18	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	6	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735526
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:12

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	7	0.1	0.5	1
14241	2-Methylphenol	95-48-7	1 J	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	47	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	73	8	21	1
14241	2-Naphthylamine	91-59-8	100	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	1,200	35	150	50
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	690	40	100	10
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l		
10602	Ethane	74-84-0	81	1.0	5.0	1
10602	Ethene	74-85-1	25	1.0	5.0	1
10602	Methane	74-82-8	4,100	60	100	20

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-G05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735526
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:12

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 13:50	Linda C Pape	10
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 14:14	Linda C Pape	100
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/08/2018 22:39	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/08/2018 22:39	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182231AA	08/11/2018 13:50	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030C	3	W182231AA	08/11/2018 14:14	Linda C Pape	100
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18216WAY026	08/15/2018 00:03	Brandon K Cordova	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18216WAY026	08/15/2018 00:31	Brandon K Cordova	10
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18216WAY026	08/15/2018 00:59	Brandon K Cordova	50
11010	8270D BNA Extraction	SW-846 3510C	1	18216WAY026	08/04/2018 10:30	Mathias Okpo	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/03/2018 21:48	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/07/2018 02:14	Johanna C Kennedy	20

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9735526
 Sample wt/vol: 248 (g/mL) mL Lab File ID: jh0726.d
 Level: (low/med) LOW Date Received: 08/02/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/04/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/15/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	8.178	120	J
2.90-41-5	[1,1'-Biphenyl]-2-amine	11.786	44	J
3.				
4.SVOCTIC	Total SVOC TICs		160	J
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Sample Description: SPBGW2H18-G05-M07B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735527
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	60 U	60	200	10
11997	Benzene	71-43-2	290	5	10	10
11997	Bromodichloromethane	75-27-4	5 U	5	10	10
11997	Bromoform	75-25-2	5 U	5	40	10
11997	Bromomethane	74-83-9	5 U	5	10	10
11997	2-Butanone	78-93-3	30 U	30	100	10
11997	Carbon Disulfide	75-15-0	10 U	10	50	10
11997	Carbon Tetrachloride	56-23-5	5 U	5	10	10
11997	Chlorobenzene	108-90-7	15,000	50	100	100
11997	Chloroethane	75-00-3	5 U	5	10	10
11997	Chloroform	67-66-3	5 U	5	10	10
11997	Chloromethane	74-87-3	5 U	5	10	10
11997	Cyclohexane	110-82-7	20 U	20	50	10
11997	1,2-Dibromo-3-chloropropane	96-12-8	20 U	20	50	10
11997	Dibromochloromethane	124-48-1	5 U	5	10	10
11997	1,2-Dibromoethane	106-93-4	5 U	5	10	10
11997	1,2-Dichlorobenzene	95-50-1	1,200	10	50	10
11997	1,3-Dichlorobenzene	541-73-1	650	10	50	10
11997	1,4-Dichlorobenzene	106-46-7	3,000	10	50	10
11997	Dichlorodifluoromethane	75-71-8	5 U	5	10	10
11997	1,1-Dichloroethane	75-34-3	5 U	5	10	10
11997	1,2-Dichloroethane	107-06-2	5 U	5	10	10
11997	1,1-Dichloroethene	75-35-4	5 U	5	10	10
11997	cis-1,2-Dichloroethene	156-59-2	5 U	5	10	10
11997	trans-1,2-Dichloroethene	156-60-5	5 U	5	10	10
11997	1,2-Dichloropropane	78-87-5	5 U	5	10	10
11997	cis-1,3-Dichloropropene	10061-01-5	5 U	5	10	10
11997	trans-1,3-Dichloropropene	10061-02-6	5 U	5	10	10
11997	Ethylbenzene	100-41-4	16	5	10	10
11997	Freon 113	76-13-1	20 U	20	100	10
11997	2-Hexanone	591-78-6	30 U	30	100	10
11997	Isopropylbenzene	98-82-8	10 U	10	50	10
11997	Methyl Acetate	79-20-9	10 U	10	50	10
11997	Methyl Tertiary Butyl Ether	1634-04-4	5 U	5	10	10
11997	4-Methyl-2-pentanone	108-10-1	30 U	30	100	10
11997	Methylcyclohexane	108-87-2	10 U	10	50	10
11997	Methylene Chloride	75-09-2	5 U	5	10	10
11997	Styrene	100-42-5	10 U	10	50	10
11997	1,1,2,2-Tetrachloroethane	79-34-5	5 U	5	10	10
11997	Tetrachloroethene	127-18-4	5 U	5	10	10
11997	Toluene	108-88-3	74	5	10	10
11997	1,2,4-Trichlorobenzene	120-82-1	95	10	50	10

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-M07B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735527
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260C	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	5 U	5	10	10
11997	1,1,2-Trichloroethane	79-00-5	5 U	5	10	10
11997	Trichloroethene	79-01-6	5 U	5	10	10
11997	Trichlorofluoromethane	75-69-4	5 U	5	10	10
11997	Vinyl Chloride	75-01-4	5 U	5	10	10
11997	m+p-Xylene	179601-23-1	120	5	10	10
11997	o-Xylene	95-47-6	22	5	10	10
11997	Xylene (Total)	1330-20-7	140	5	10	10

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l		
00527	1,4-Dioxane	123-91-1	4.0 U	4.0	8.0	20

Reporting limits were raised due to interference from the sample matrix.

GC/MS Semivolatiles	SW-846 8270D	ug/l	ug/l	ug/l		
14241	Acenaphthene	83-32-9	5	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	85	5	11	1
14241	Aniline	62-53-3	2,800	300	1,000	100
14241	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	110	20	60	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-G05-M07B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735527
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	17	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	35	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	22	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	6	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	1 J	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	4	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 J	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	34	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	37	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-G05-M07B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735527
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:35

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270D						
14241	2-Methylnaphthalene	91-57-6	24	0.1	0.5	1
14241	2-Methylphenol	95-48-7	5	0.5	2	1
14241	4-Methylphenol	106-44-5	310	5	20	10
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	75	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	58	8	21	1
14241	2-Naphthylamine	91-59-8	320	70	210	10
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	2,500	70	300	100
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.4 J	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	2,500	400	1,000	100
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602	Ethane	74-84-0	3.2 J	1.0
10602	Ethene	74-85-1	1.4 J	1.0
10602	Methane	74-82-8	4,400	60

Sample Comments

State of New Jersey Lab Certification No. PA011

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-G05-M07B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735527
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 10:35

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 14:38	Linda C Pape	10
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 15:02	Linda C Pape	100
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/08/2018 23:19	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/08/2018 23:19	Kevin A Sposito	20
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182231AA	08/11/2018 14:38	Linda C Pape	10
01163	GC/MS VOA Water Prep	SW-846 5030C	3	W182231AA	08/11/2018 15:02	Linda C Pape	100
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18216WAY026	08/15/2018 01:27	Brandon K Cordova	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18216WAY026	08/15/2018 01:56	Brandon K Cordova	10
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18216WAY026	08/15/2018 02:24	Brandon K Cordova	100
11010	8270D BNA Extraction	SW-846 3510C	1	18216WAY026	08/04/2018 10:30	Mathias Okpo	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/07/2018 02:32	Johanna C Kennedy	20
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/11/2018 00:45	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9735527
 Sample wt/vol: 250 (g/mL) mL Lab File ID: jh0728.d
 Level: (low/med) LOW Date Received: 08/02/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/04/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/15/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	8.201	860	J
2.90-41-5	[1,1'-Biphenyl]-2-amine	11.763	54	J
3.				
4.SVOCTIC	Total SVOC TICs		910	J
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REVISED

Sample Description: SPBGW2H18-EB-18 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735528
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-EB-18 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735528
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

GC/MS Volatiles		SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1

GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	0.1 U	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.1 U	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benzidine	92-87-5	20 U	20	60	1
14241	Benzo(a)anthracene	56-55-3	0.1 U	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-EB-18 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735528
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	0.5 U	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.1 U	0.1	0.5	1
14241	Fluorene	86-73-7	0.1 U	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-EB-18 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735528
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270D						
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	8 U	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.1 U	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	0.1 U	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:
The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
10602 Ethane	74-84-0	1.0 U	1.0	5.0
10602 Ethene	74-85-1	1.0 U	1.0	5.0
10602 Methane	74-82-8	3.0 U	3.0	5.0

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-EB-18 Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735528
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:00

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 09:48	Linda C Pape	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/08/2018 17:56	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/08/2018 17:56	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182231AA	08/11/2018 09:48	Linda C Pape	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/11/2018 22:10	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	18215WAO026	08/04/2018 10:30	Mathias Okpo	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/03/2018 22:25	Johanna C Kennedy	1

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9735528
 Sample wt/vol: 250 (g/mL) mL Lab File ID: jh0574.d
 Level: (low/med) LOW Date Received: 08/02/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/04/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/11/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	8.212	0	J
2.90-41-5	[1,1'-Biphenyl]-2-amine	11.803	0	J
3.				
4.SVOCTIC	Total SVOC TICs		0	J
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Sample Description: SPBGW2H18-TB-18 Blank Water
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735529
ELLE Group #: 1972569
Matrix: Blank Water

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	0.5 U	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	1 U	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	1 U	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.5 U	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-TB-18 Blank Water
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735529
ELLE Group #: 1972569
Matrix: Blank Water

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 08:00

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 U	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for:
1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

GC/MS Volatiles	SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527 1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 10:12	Linda C Pape	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/08/2018 18:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/08/2018 18:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182231AA	08/11/2018 10:12	Linda C Pape	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735530
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 11:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	Acetone	67-64-1	6 U	6	20	1
11997	Benzene	71-43-2	0.5 U	0.5	1	1
11997	Bromodichloromethane	75-27-4	0.5 U	0.5	1	1
11997	Bromoform	75-25-2	0.5 U	0.5	4	1
11997	Bromomethane	74-83-9	0.5 U	0.5	1	1
11997	2-Butanone	78-93-3	3 U	3	10	1
11997	Carbon Disulfide	75-15-0	1 U	1	5	1
11997	Carbon Tetrachloride	56-23-5	0.5 U	0.5	1	1
11997	Chlorobenzene	108-90-7	12	0.5	1	1
11997	Chloroethane	75-00-3	0.5 U	0.5	1	1
11997	Chloroform	67-66-3	0.5 U	0.5	1	1
11997	Chloromethane	74-87-3	0.5 U	0.5	1	1
11997	Cyclohexane	110-82-7	2 U	2	5	1
11997	1,2-Dibromo-3-chloropropane	96-12-8	2 U	2	5	1
11997	Dibromochloromethane	124-48-1	0.5 U	0.5	1	1
11997	1,2-Dibromoethane	106-93-4	0.5 U	0.5	1	1
11997	1,2-Dichlorobenzene	95-50-1	7	1	5	1
11997	1,3-Dichlorobenzene	541-73-1	1 U	1	5	1
11997	1,4-Dichlorobenzene	106-46-7	3 J	1	5	1
11997	Dichlorodifluoromethane	75-71-8	0.5 U	0.5	1	1
11997	1,1-Dichloroethane	75-34-3	0.5 U	0.5	1	1
11997	1,2-Dichloroethane	107-06-2	0.5 U	0.5	1	1
11997	1,1-Dichloroethene	75-35-4	0.5 U	0.5	1	1
11997	cis-1,2-Dichloroethene	156-59-2	0.9 J	0.5	1	1
11997	trans-1,2-Dichloroethene	156-60-5	0.5 U	0.5	1	1
11997	1,2-Dichloropropane	78-87-5	0.5 U	0.5	1	1
11997	cis-1,3-Dichloropropene	10061-01-5	0.5 U	0.5	1	1
11997	trans-1,3-Dichloropropene	10061-02-6	0.5 U	0.5	1	1
11997	Ethylbenzene	100-41-4	0.5 U	0.5	1	1
11997	Freon 113	76-13-1	2 U	2	10	1
11997	2-Hexanone	591-78-6	3 U	3	10	1
11997	Isopropylbenzene	98-82-8	1 U	1	5	1
11997	Methyl Acetate	79-20-9	1 U	1	5	1
11997	Methyl Tertiary Butyl Ether	1634-04-4	0.5 U	0.5	1	1
11997	4-Methyl-2-pentanone	108-10-1	3 U	3	10	1
11997	Methylcyclohexane	108-87-2	1 U	1	5	1
11997	Methylene Chloride	75-09-2	0.5 U	0.5	1	1
11997	Styrene	100-42-5	1 U	1	5	1
11997	1,1,2,2-Tetrachloroethane	79-34-5	0.5 U	0.5	1	1
11997	Tetrachloroethene	127-18-4	0.5 U	0.5	1	1
11997	Toluene	108-88-3	0.5 U	0.5	1	1
11997	1,2,4-Trichlorobenzene	120-82-1	1 J	1	5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735530
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submittal Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 11:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260C	ug/l	ug/l	ug/l	
11997	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	1	1
11997	1,1,2-Trichloroethane	79-00-5	0.5 U	0.5	1	1
11997	Trichloroethene	79-01-6	0.5 U	0.5	1	1
11997	Trichlorofluoromethane	75-69-4	0.5 U	0.5	1	1
11997	Vinyl Chloride	75-01-4	0.5 J	0.5	1	1
11997	m+p-Xylene	179601-23-1	0.5 U	0.5	1	1
11997	o-Xylene	95-47-6	0.5 U	0.5	1	1
11997	Xylene (Total)	1330-20-7	0.5 U	0.5	1	1

A Method Detection Limit (MDL) standard is analyzed to confirm sensitivity of the instrument for samples with non-detect analytes associated with a continuing calibration verification standard exhibiting low response (outside the 20%D criteria). The MDL standard shows adequate sensitivity at or below the reporting limit.

The percent drift for the following is >20% in the continuing calibration verification standard associated with this sample: Chloroethane, Vinyl Chloride, Bromomethane, & Chloromethane

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the TNI/DoD Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

The NJ DKQP analyte list requirement was not met for Method 8260C. The client specified list is reported.

The NJ DKQP required reporting limit could not be attained for: 1,2-Dibromoethane & 1,2-Dibromo-3-chloropropane

The referenced method allows a maximum of 20% of the analytes in the calibration to exceed the 20% Drift continuing calibration verification criteria. The reported concentration in the associated sample(s) is considered to be estimated. Therefore the result for the following analyte(s) is estimated: Vinyl Chloride

GC/MS Volatiles		SW-846 8260C SIM	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.2 U	0.2	0.4	1
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Acenaphthene	83-32-9	13	0.1	0.5	1
14241	Acenaphthylene	208-96-8	0.1 U	0.1	0.5	1
14241	Acetophenone	98-86-2	4 U	4	10	1
14241	4-Aminobiphenyl	92-67-1	5 U	5	11	1
14241	Aniline	62-53-3	3 U	3	10	1
14241	Anthracene	120-12-7	0.3 J	0.1	0.5	1
14241	Atrazine	1912-24-9	2 U	2	5	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735530
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 11:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Benzaldehyde	100-52-7	3 U	3	10	1
14241	Benidine	92-87-5	20 U	20	61	1
14241	Benzo(a)anthracene	56-55-3	0.1 J	0.1	0.5	1
14241	Benzo(a)pyrene	50-32-8	0.1 U	0.1	0.5	1
14241	Benzo(b)fluoranthene	205-99-2	0.1 U	0.1	0.5	1
14241	Benzo(g,h,i)perylene	191-24-2	0.1 U	0.1	0.5	1
14241	Benzo(k)fluoranthene	207-08-9	0.1 U	0.1	0.5	1
14241	1,1'-Biphenyl	92-52-4	3 U	3	10	1
14241	4-Bromophenyl-phenylether	101-55-3	0.5 U	0.5	2	1
14241	Butylbenzylphthalate	85-68-7	2 U	2	5	1
14241	Di-n-butylphthalate	84-74-2	2 U	2	5	1
14241	Caprolactam	105-60-2	5 U	5	11	1
14241	Carbazole	86-74-8	0.5 U	0.5	2	1
14241	4-Chloro-3-methylphenol	59-50-7	0.5 U	0.5	2	1
14241	4-Chloroaniline	106-47-8	4 U	4	10	1
14241	bis(2-Chloroethoxy)methane	111-91-1	0.5 U	0.5	2	1
14241	bis(2-Chloroethyl)ether	111-44-4	0.5 U	0.5	2	1
14241	2-Chloronaphthalene	91-58-7	0.4 U	0.4	1	1
14241	2-Chlorophenol	95-57-8	0.5 U	0.5	2	1
14241	4-Chlorophenyl-phenylether	7005-72-3	0.5 U	0.5	2	1
14241	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5 U	0.5	2	1
Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
14241	Chrysene	218-01-9	0.1 U	0.1	0.5	1
14241	Dibenz(a,h)anthracene	53-70-3	0.1 U	0.1	0.5	1
14241	Dibenzofuran	132-64-9	0.5 U	0.5	2	1
14241	3,3'-Dichlorobenzidine	91-94-1	3 U	3	10	1
14241	2,4-Dichlorophenol	120-83-2	0.5 U	0.5	2	1
14241	Diethylphthalate	84-66-2	2 U	2	5	1
14241	2,4-Dimethylphenol	105-67-9	3 U	3	10	1
14241	Dimethylphthalate	131-11-3	2 U	2	5	1
14241	4,6-Dinitro-2-methylphenol	534-52-1	8 U	8	21	1
14241	2,4-Dinitrophenol	51-28-5	14 U	14	30	1
14241	2,4-Dinitrotoluene	121-14-2	1 U	1	5	1
14241	2,6-Dinitrotoluene	606-20-2	0.5 U	0.5	2	1
14241	Diphenyl ether	101-84-8	2	0.5	2	1
14241	1,2-Diphenylhydrazine	122-66-7	0.5 U	0.5	2	1
14241	bis(2-Ethylhexyl)phthalate	117-81-7	5 U	5	11	1
14241	Fluoranthene	206-44-0	0.2 J	0.1	0.5	1
14241	Fluorene	86-73-7	0.3 J	0.1	0.5	1
14241	Hexachlorobenzene	118-74-1	0.1 U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: SPBGW2H18-F05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735530
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 11:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		SW-846 8270D	ug/l	ug/l	ug/l	
14241	Hexachlorobutadiene	87-68-3	0.5 U	0.5	2	1
14241	Hexachlorocyclopentadiene	77-47-4	5 U	5	11	1
14241	Hexachloroethane	67-72-1	1 U	1	5	1
14241	Indeno(1,2,3-cd)pyrene	193-39-5	0.1 U	0.1	0.5	1
14241	Isophorone	78-59-1	0.5 U	0.5	2	1
14241	2-Methylnaphthalene	91-57-6	0.1 U	0.1	0.5	1
14241	2-Methylphenol	95-48-7	0.5 U	0.5	2	1
14241	4-Methylphenol	106-44-5	0.5 U	0.5	2	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
14241	Naphthalene	91-20-3	0.1 U	0.1	0.5	1
14241	1-Naphthylamine	134-32-7	11 J	8	21	1
14241	2-Naphthylamine	91-59-8	7 U	7	21	1
14241	2-Nitroaniline	88-74-4	2 U	2	7	1
14241	3-Nitroaniline	99-09-2	3 U	3	7	1
14241	4-Nitroaniline	100-01-6	0.9 U	0.9	3	1
14241	Nitrobenzene	98-95-3	0.5 U	0.5	2	1
14241	2-Nitrophenol	88-75-5	3 U	3	10	1
14241	4-Nitrophenol	100-02-7	10 U	10	30	1
14241	N-Nitroso-di-n-propylamine	621-64-7	0.7 U	0.7	3	1
14241	N-Nitrosodiphenylamine	86-30-6	0.7 U	0.7	3	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
14241	Di-n-octylphthalate	117-84-0	5 U	5	11	1
14241	Pentachlorophenol	87-86-5	1 U	1	5	1
14241	Phenanthrene	85-01-8	0.2 J	0.1	0.5	1
14241	Phenol	108-95-2	0.5 U	0.5	2	1
14241	Pyrene	129-00-0	2	0.1	0.5	1
14241	o-Toluidine	95-53-4	4 U	4	10	1
14241	2,4,5-Trichlorophenol	95-95-4	0.5 U	0.5	2	1
14241	2,4,6-Trichlorophenol	88-06-2	0.5 U	0.5	2	1

The project QA/QC requirements were not met.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial.

11659 Targeted Library Search (SVOC)

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined at the end of the report.

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: SPBGW2H18-F05-M06B Groundwater
SC SPB WELL SAMPLING 2H18

The Chemours Company FC, LLC
ELLE Sample #: WW 9735530
ELLE Group #: 1972569
Matrix: Groundwater

Project Name: CWK - SC SPB WELL SAMPLING

Submission Date/Time: 08/02/2018 18:40
Collection Date/Time: 08/02/2018 11:37

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC Miscellaneous						
		RSKSOP-175 modified	ug/l	ug/l	ug/l	
10602	Ethane	74-84-0	4.0 J	1.0	5.0	1
10602	Ethene	74-85-1	1.0 U	1.0	5.0	1
10602	Methane	74-82-8	4,200	60	100	20

Sample Comments

State of New Jersey Lab Certification No. PA011

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11997	NJ SOM02.2 VOAs	SW-846 8260C	1	W182231AA	08/11/2018 12:37	Linda C Pape	1
00527	1,4-Dioxane	SW-846 8260C SIM	1	E182201AA	08/08/2018 21:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	E182201AA	08/08/2018 21:18	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	W182231AA	08/11/2018 12:37	Linda C Pape	1
14241	NJ SOM02.2 SVs + Add'l Cmpds	SW-846 8270D	1	18215WAO026	08/11/2018 22:39	Kira N Klaassen	1
11010	8270D BNA Extraction	SW-846 3510C	1	18215WAO026	08/04/2018 10:30	Mathias Okpo	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/03/2018 23:03	Johanna C Kennedy	1
10602	Dissolved Gases (3)	RSKSOP-175 modified	1	182150099A	08/07/2018 02:51	Johanna C Kennedy	20

*=This limit was used in the evaluation of the final result

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: Lancaster Laboratories Contract: _____
 Lab Code: LANCAS Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: 9735530
 Sample wt/vol: 247 (g/mL) mL Lab File ID: jh0575.d
 Level: (low/med) LOW Date Received: 08/02/18
 % Moisture: Decanted: (Y/N) Date Extracted: 08/04/18
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/11/18
 Injection Volume: 0.5 (uL) Dilution Factor: 1
 GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.95-51-2	o-Chloroaniline	8.207	1	J
2.90-41-5	[1,1'-Biphenyl]-2-amine	11.803	0	J
3.SVOCTIC	Total SVOC TICs		1	J
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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
Batch number: E182201AA	Sample number(s): 9735525-9735530		
1,4-Dioxane	0.2 U	0.2	0.4
Batch number: E182231AA	Sample number(s): 9735522-9735524		
1,4-Dioxane	0.2 U	0.2	0.4
Batch number: W182231AA	Sample number(s): 9735522-9735530		
Acetone	6 U	6	20
Benzene	0.5 U	0.5	1
Bromodichloromethane	0.5 U	0.5	1
Bromoform	0.5 U	0.5	4
Bromomethane	0.5 U	0.5	1
2-Butanone	3 U	3	10
Carbon Disulfide	1 U	1	5
Carbon Tetrachloride	0.5 U	0.5	1
Chlorobenzene	0.5 U	0.5	1
Chloroethane	0.5 U	0.5	1
Chloroform	0.5 U	0.5	1
Chloromethane	0.5 U	0.5	1
Cyclohexane	2 U	2	5
1,2-Dibromo-3-chloropropane	2 U	2	5
Dibromochloromethane	0.5 U	0.5	1
1,2-Dibromoethane	0.5 U	0.5	1
1,2-Dichlorobenzene	1 U	1	5
1,3-Dichlorobenzene	1 U	1	5
1,4-Dichlorobenzene	1 U	1	5
Dichlorodifluoromethane	0.5 U	0.5	1
1,1-Dichloroethane	0.5 U	0.5	1
1,2-Dichloroethane	0.5 U	0.5	1
1,1-Dichloroethene	0.5 U	0.5	1
cis-1,2-Dichloroethene	0.5 U	0.5	1
trans-1,2-Dichloroethene	0.5 U	0.5	1
1,2-Dichloropropane	0.5 U	0.5	1
cis-1,3-Dichloropropene	0.5 U	0.5	1
trans-1,3-Dichloropropene	0.5 U	0.5	1
Ethylbenzene	0.5 U	0.5	1
Freon 113	2 U	2	10
2-Hexanone	3 U	3	10
Isopropylbenzene	1 U	1	5
Methyl Acetate	1 U	1	5
Methyl Tertiary Butyl Ether	0.5 U	0.5	1

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
4-Methyl-2-pentanone	3 U	3	10
Methylcyclohexane	1 U	1	5
Methylene Chloride	0.5 U	0.5	1
Styrene	1 U	1	5
1,1,2,2-Tetrachloroethane	0.5 U	0.5	1
Tetrachloroethene	0.5 U	0.5	1
Toluene	0.5 U	0.5	1
1,2,4-Trichlorobenzene	1 U	1	5
1,1,1-Trichloroethane	0.5 U	0.5	1
1,1,2-Trichloroethane	0.5 U	0.5	1
Trichloroethene	0.5 U	0.5	1
Trichlorofluoromethane	0.5 U	0.5	1
Vinyl Chloride	0.5 U	0.5	1
m+p-Xylene	0.5 U	0.5	1
o-Xylene	0.5 U	0.5	1
Xylene (Total)	0.5 U	0.5	1
Batch number: 18215WAO026	Sample number(s): 9735522-9735525,9735528,9735530		
Acenaphthene	0.1 U	0.1	0.5
Acenaphthylene	0.1 U	0.1	0.5
Acetophenone	4 U	4	10
4-Aminobiphenyl	5 U	5	11
Aniline	3 U	3	10
Anthracene	0.1 U	0.1	0.5
Atrazine	2 U	2	5
Benzaldehyde	3 U	3	10
Benzydine	20 U	20	60
Benzo(a)anthracene	0.1 U	0.1	0.5
Benzo(a)pyrene	0.1 U	0.1	0.5
Benzo(b)fluoranthene	0.1 U	0.1	0.5
Benzo(g,h,i)perylene	0.1 U	0.1	0.5
Benzo(k)fluoranthene	0.1 U	0.1	0.5
1,1'-Biphenyl	3 U	3	10
4-Bromophenyl-phenylether	0.5 U	0.5	2
Butylbenzylphthalate	2 U	2	5
Di-n-butylphthalate	2 U	2	5
Caprolactam	5 U	5	11
Carbazole	0.5 U	0.5	2
4-Chloro-3-methylphenol	0.5 U	0.5	2
4-Chloroaniline	4 U	4	10
bis(2-Chloroethoxy)methane	0.5 U	0.5	2
bis(2-Chloroethyl)ether	0.5 U	0.5	2
2-Chloronaphthalene	0.4 U	0.4	1
2-Chlorophenol	0.5 U	0.5	2
4-Chlorophenyl-phenylether	0.5 U	0.5	2

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
2,2'-oxybis(1-Chloropropane)	0.5 U	0.5	2
Chrysene	0.1 U	0.1	0.5
Dibenz(a,h)anthracene	0.1 U	0.1	0.5
Dibenzofuran	0.5 U	0.5	2
3,3'-Dichlorobenzidine	3 U	3	10
2,4-Dichlorophenol	0.5 U	0.5	2
Diethylphthalate	2 U	2	5
2,4-Dimethylphenol	3 U	3	10
Dimethylphthalate	2 U	2	5
4,6-Dinitro-2-methylphenol	8 U	8	21
2,4-Dinitrophenol	14 U	14	30
2,4-Dinitrotoluene	1 U	1	5
2,6-Dinitrotoluene	0.5 U	0.5	2
Diphenyl ether	0.5 U	0.5	2
1,2-Diphenylhydrazine	0.5 U	0.5	2
bis(2-Ethylhexyl)phthalate	5 U	5	11
Fluoranthene	0.1 U	0.1	0.5
Fluorene	0.1 U	0.1	0.5
Hexachlorobenzene	0.1 U	0.1	0.5
Hexachlorobutadiene	0.5 U	0.5	2
Hexachlorocyclopentadiene	5 U	5	11
Hexachloroethane	1 U	1	5
Indeno(1,2,3-cd)pyrene	0.1 U	0.1	0.5
Isophorone	0.5 U	0.5	2
2-Methylnaphthalene	0.1 U	0.1	0.5
2-Methylphenol	0.5 U	0.5	2
4-Methylphenol	0.5 U	0.5	2
Naphthalene	0.1 U	0.1	0.5
1-Naphthylamine	8 U	8	21
2-Naphthylamine	7 U	7	21
2-Nitroaniline	2 U	2	7
3-Nitroaniline	3 U	3	7
4-Nitroaniline	0.9 U	0.9	3
Nitrobenzene	0.5 U	0.5	2
2-Nitrophenol	3 U	3	10
4-Nitrophenol	10 U	10	30
N-Nitroso-di-n-propylamine	0.7 U	0.7	3
N-Nitrosodiphenylamine	0.7 U	0.7	3
Di-n-octylphthalate	5 U	5	11
Pentachlorophenol	1 U	1	5
Phenanthrene	0.1 U	0.1	0.5
Phenol	0.5 U	0.5	2
Pyrene	0.1 U	0.1	0.5
o-Toluidine	4 U	4	10
2,4,5-Trichlorophenol	0.5 U	0.5	2

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
2,4,6-Trichlorophenol	0.5 U	0.5	2
Batch number: 18216WAY026	Sample number(s): 9735526-9735527		
Acenaphthene	0.1 U	0.1	0.5
Acenaphthylene	0.1 U	0.1	0.5
Acetophenone	4 U	4	10
4-Aminobiphenyl	5 U	5	11
Aniline	3 U	3	10
Anthracene	0.1 U	0.1	0.5
Atrazine	2 U	2	5
Benzaldehyde	3 U	3	10
Benzidine	20 U	20	60
Benzo(a)anthracene	0.1 U	0.1	0.5
Benzo(a)pyrene	0.1 U	0.1	0.5
Benzo(b)fluoranthene	0.1 U	0.1	0.5
Benzo(g,h,i)perylene	0.1 U	0.1	0.5
Benzo(k)fluoranthene	0.1 U	0.1	0.5
1,1'-Biphenyl	3 U	3	10
4-Bromophenyl-phenylether	0.5 U	0.5	2
Butylbenzylphthalate	2 U	2	5
Di-n-butylphthalate	2 U	2	5
Caprolactam	5 U	5	11
Carbazole	0.5 U	0.5	2
4-Chloro-3-methylphenol	0.5 U	0.5	2
4-Chloroaniline	4 U	4	10
bis(2-Chloroethoxy)methane	0.5 U	0.5	2
bis(2-Chloroethyl)ether	0.5 U	0.5	2
2-Chloronaphthalene	0.4 U	0.4	1
2-Chlorophenol	0.5 U	0.5	2
4-Chlorophenyl-phenylether	0.5 U	0.5	2
2,2'-oxybis(1-Chloropropane)	0.5 U	0.5	2
Chrysene	0.1 U	0.1	0.5
Dibenz(a,h)anthracene	0.1 U	0.1	0.5
Dibenzofuran	0.5 U	0.5	2
3,3'-Dichlorobenzidine	3 U	3	10
2,4-Dichlorophenol	0.5 U	0.5	2
Diethylphthalate	2 U	2	5
2,4-Dimethylphenol	3 U	3	10
Dimethylphthalate	2 U	2	5
4,6-Dinitro-2-methylphenol	8 U	8	21
2,4-Dinitrophenol	14 U	14	30
2,4-Dinitrotoluene	1 U	1	5
2,6-Dinitrotoluene	0.5 U	0.5	2
Diphenyl ether	0.5 U	0.5	2
1,2-Diphenylhydrazine	0.5 U	0.5	2

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ug/l	ug/l	ug/l
bis(2-Ethylhexyl)phthalate	5 U	5	11
Fluoranthene	0.1 U	0.1	0.5
Fluorene	0.1 U	0.1	0.5
Hexachlorobenzene	0.1 U	0.1	0.5
Hexachlorobutadiene	0.5 U	0.5	2
Hexachlorocyclopentadiene	5 U	5	11
Hexachloroethane	1 U	1	5
Indeno(1,2,3-cd)pyrene	0.1 U	0.1	0.5
Isophorone	0.5 U	0.5	2
2-Methylnaphthalene	0.1 U	0.1	0.5
2-Methylphenol	0.5 U	0.5	2
4-Methylphenol	0.5 U	0.5	2
Naphthalene	0.1 U	0.1	0.5
1-Naphthylamine	8 U	8	21
2-Naphthylamine	7 U	7	21
2-Nitroaniline	2 U	2	7
3-Nitroaniline	3 U	3	7
4-Nitroaniline	0.9 U	0.9	3
Nitrobenzene	0.5 U	0.5	2
2-Nitrophenol	3 U	3	10
4-Nitrophenol	10 U	10	30
N-Nitroso-di-n-propylamine	0.7 U	0.7	3
N-Nitrosodiphenylamine	0.7 U	0.7	3
Di-n-octylphthalate	5 U	5	11
Pentachlorophenol	1 U	1	5
Phenanthrene	0.1 U	0.1	0.5
Phenol	0.5 U	0.5	2
Pyrene	0.1 U	0.1	0.5
o-Toluidine	4 U	4	10
2,4,5-Trichlorophenol	0.5 U	0.5	2
2,4,6-Trichlorophenol	0.5 U	0.5	2
Batch number: 182150099A	Sample number(s): 9735525-9735528,9735530		
Ethane	1.0 U	1.0	5.0
Ethene	1.0 U	1.0	5.0
Methane	3.0 U	3.0	5.0
Batch number: 182180099A	Sample number(s): 9735522-9735524		
Ethane	1.0 U	1.0	5.0
Ethene	1.0 U	1.0	5.0
Methane	3.0 U	3.0	5.0

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

LCS/LCSD

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: E182201AA	Sample number(s): 9735525-9735530								
1,4-Dioxane	5.00	5.05			101		80-130		
Batch number: E182231AA	Sample number(s): 9735522-9735524								
1,4-Dioxane	5.00	5.24			105		80-130		
Batch number: W182231AA	Sample number(s): 9735522-9735530								
Acetone	150	117.59			78		60-140		
Benzene	20	19.02			95		70-130		
Bromodichloromethane	20	18.1			91		70-130		
Bromoform	20	18.66			93		70-130		
Bromomethane	20	15.07			75		60-140		
2-Butanone	150	132.52			88		60-140		
Carbon Disulfide	20	17.45			87		60-140		
Carbon Tetrachloride	20	22.02			110		70-130		
Chlorobenzene	20	18.69			93		70-130		
Chloroethane	20	13.9			70		60-140		
Chloroform	20	18.64			93		70-130		
Chloromethane	20	13.75			69		60-140		
Cyclohexane	20	19.44			97		70-130		
1,2-Dibromo-3-chloropropane	20	16.93			85		60-140		
Dibromochloromethane	20	19.22			96		70-130		
1,2-Dibromoethane	20	18.58			93		70-130		
1,2-Dichlorobenzene	20	18.35			92		70-130		
1,3-Dichlorobenzene	20	18.5			93		70-130		
1,4-Dichlorobenzene	20	18.76			94		70-130		
Dichlorodifluoromethane	20	17.43			87		60-140		
1,1-Dichloroethane	20	18.46			92		70-130		
1,2-Dichloroethane	20	17.56			88		70-130		
1,1-Dichloroethene	20	21.36			107		70-130		
cis-1,2-Dichloroethene	20	19.71			99		70-130		
trans-1,2-Dichloroethene	20	19.73			99		70-130		
1,2-Dichloropropane	20	19.38			97		70-130		
cis-1,3-Dichloropropene	20	18.85			94		70-130		
trans-1,3-Dichloropropene	20	17.42			87		70-130		
Ethylbenzene	20	18.73			94		70-130		
Freon 113	20	19.27			96		70-130		
2-Hexanone	100	83.5			84		60-140		
Isopropylbenzene	20	18.98			95		70-130		
Methyl Acetate	20	17.69			88		70-130		
Methyl Tertiary Butyl Ether	20	16.47			82		70-130		
4-Methyl-2-pentanone	100	90.78			91		60-140		
Methylcyclohexane	20	21.45			107		70-130		
Methylene Chloride	20	20.44			102		70-130		
Styrene	20	18.6			93		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,1,2,2-Tetrachloroethane	20	17.02			85		70-130		
Tetrachloroethene	20	20.05			100		70-130		
Toluene	20	17.96			90		70-130		
1,2,4-Trichlorobenzene	20	18.24			91		70-130		
1,1,1-Trichloroethane	20	18.49			92		70-130		
1,1,2-Trichloroethane	20	18.69			93		70-130		
Trichloroethene	20	18.44			92		70-130		
Trichlorofluoromethane	20	16.63			83		60-140		
Vinyl Chloride	20	13.47			67*		70-130		
m+p-Xylene	40	38.05			95		70-130		
o-Xylene	20	18.1			91		70-130		
Xylene (Total)	60	56.15			94		70-130		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 18215WAO026	Sample number(s): 9735522-9735525,9735528,9735530								
Acenaphthene	50	37.62			75		70-130		
Acenaphthylene	50	40.46			81		70-130		
Acetophenone	50	39.37			79		70-130		
4-Aminobiphenyl	50	5 U			0*		70-130		
Aniline	50	27.52			55		20-160		
Anthracene	50	40.73			81		70-130		
Atrazine	50	46.2			92		70-130		
Benzaldehyde	50	30.77			62		20-160		
Benidine	250	20 U			0*		20-160		
Benzo(a)anthracene	50	46.63			93		70-130		
Benzo(a)pyrene	50	43.67			87		70-130		
Benzo(b)fluoranthene	50	43.67			87		70-130		
Benzo(g,h,i)perylene	50	44			88		70-130		
Benzo(k)fluoranthene	50	42.37			85		70-130		
1,1'-Biphenyl	50	34.19			68*		70-130		
4-Bromophenyl-phenylether	50	40.09			80		70-130		
Butylbenzylphthalate	50	38.53			77		70-130		
Di-n-butylphthalate	50	39.39			79		70-130		
Caprolactam	50	13.13			26		20-160		
Carbazole	50	46.02			92		70-130		
4-Chloro-3-methylphenol	50	46.02			92		70-130		
4-Chloroaniline	50	34.61			69*		70-130		
bis(2-Chloroethoxy)methane	50	43.08			86		70-130		
bis(2-Chloroethyl)ether	50	37.59			75		70-130		
2-Chloronaphthalene	50	35.04			70		70-130		
2-Chlorophenol	50	40.98			82		20-160		
4-Chlorophenyl-phenylether	50	32.39			65*		70-130		
2,2'-oxybis(1-Chloropropane)	50	35.44			71		70-130		
Chrysene	50	46.31			93		70-130		

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenz(a,h)anthracene	50	45.13			90		70-130		
Dibenzofuran	50	36.78			74		70-130		
3,3'-Dichlorobenzidine	50	36.47			73		70-130		
2,4-Dichlorophenol	50	44.31			89		70-130		
Diethylphthalate	50	31.67			63*		70-130		
2,4-Dimethylphenol	50	34.87			70		70-130		
Dimethylphthalate	50	26.23			52*		70-130		
4,6-Dinitro-2-methylphenol	50	48.26			97		70-130		
2,4-Dinitrophenol	100	92.57			93		20-160		
2,4-Dinitrotoluene	50	40.89			82		70-130		
2,6-Dinitrotoluene	50	44.75			90		70-130		
Diphenyl ether	50	34.48			69*		70-130		
1,2-Diphenylhydrazine	50	46.61			93		70-130		
bis(2-Ethylhexyl)phthalate	50	47.23			94		70-130		
Fluoranthene	50	41.68			83		70-130		
Fluorene	50	36.28			73		70-130		
Hexachlorobenzene	50	43.99			88		70-130		
Hexachlorobutadiene	50	18.41			37*		70-130		
Hexachlorocyclopentadiene	100	19.71			20		20-160		
Hexachloroethane	50	20.44			41		20-160		
Indeno(1,2,3-cd)pyrene	50	43.87			88		70-130		
Isophorone	50	42.57			85		70-130		
2-Methylnaphthalene	50	30.33			61*		70-130		
2-Methylphenol	50	38.51			77		70-130		
4-Methylphenol	50	36.7			73		20-160		
Naphthalene	50	33.01			66*		70-130		
1-Naphthylamine	100	43.9			44*		70-130		
2-Naphthylamine	100	39.64			40*		70-130		
2-Nitroaniline	50	49.93			100		70-130		
3-Nitroaniline	50	40.89			82		70-130		
4-Nitroaniline	50	31.39			63*		70-130		
Nitrobenzene	50	39.84			80		70-130		
2-Nitrophenol	50	47.27			95		70-130		
4-Nitrophenol	50	26.79			54		20-160		
N-Nitroso-di-n-propylamine	50	38.08			76		70-130		
N-Nitrosodiphenylamine	50	46.7			93		70-130		
Di-n-octylphthalate	50	41.32			83		70-130		
Pentachlorophenol	50	53.19			106		20-160		
Phenanthrene	50	44.42			89		70-130		
Phenol	50	22.43			45		20-160		
Pyrene	50	42.11			84		70-130		
o-Toluidine	50	28.55			57*		70-130		
2,4,5-Trichlorophenol	50	46.99			94		70-130		
2,4,6-Trichlorophenol	50	44.97			90		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 18216WAY026		Sample number(s): 9735526-9735527							
Acenaphthene	50	37.6			75		70-130		
Acenaphthylene	50	38.57			77		70-130		
Acetophenone	50	39.77			80		70-130		
4-Aminobiphenyl	50	5 U			0*		70-130		
Aniline	50	27.75			56		20-160		
Anthracene	50	41.24			82		70-130		
Atrazine	50	47.9			96		70-130		
Benzaldehyde	50	29.89			60		20-160		
Benzidine	250	20 U			0*		20-160		
Benzo(a)anthracene	50	46.67			93		70-130		
Benzo(a)pyrene	50	44.89			90		70-130		
Benzo(b)fluoranthene	50	42.93			86		70-130		
Benzo(g,h,i)perylene	50	45.91			92		70-130		
Benzo(k)fluoranthene	50	44.74			89		70-130		
1,1'-Biphenyl	50	34.18			68*		70-130		
4-Bromophenyl-phenylether	50	41.42			83		70-130		
Butylbenzylphthalate	50	37.11			74		70-130		
Di-n-butylphthalate	50	38.4			77		70-130		
Caprolactam	50	13.14			26		20-160		
Carbazole	50	44.1			88		70-130		
4-Chloro-3-methylphenol	50	45.33			91		70-130		
4-Chloroaniline	50	35.61			71		70-130		
bis(2-Chloroethoxy)methane	50	43.48			87		70-130		
bis(2-Chloroethyl)ether	50	37.34			75		70-130		
2-Chloronaphthalene	50	31.18			62*		70-130		
2-Chlorophenol	50	41.14			82		20-160		
4-Chlorophenyl-phenylether	50	31.8			64*		70-130		
2,2'-oxybis(1-Chloropropane)	50	35.5			71		70-130		
Chrysene	50	45.75			92		70-130		
Dibenz(a,h)anthracene	50	46.43			93		70-130		
Dibenzofuran	50	36.18			72		70-130		
3,3'-Dichlorobenzidine	50	36.96			74		70-130		
2,4-Dichlorophenol	50	45.43			91		70-130		
Diethylphthalate	50	29.47			59*		70-130		
2,4-Dimethylphenol	50	35.84			72		70-130		
Dimethylphthalate	50	23.38			47*		70-130		
4,6-Dinitro-2-methylphenol	50	46.33			93		70-130		
2,4-Dinitrophenol	100	87.47			87		20-160		
2,4-Dinitrotoluene	50	37.69			75		70-130		
2,6-Dinitrotoluene	50	43.84			88		70-130		
Diphenyl ether	50	34.5			69*		70-130		
1,2-Diphenylhydrazine	50	42.34			85		70-130		

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

LCS/LCSD (continued)

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
bis(2-Ethylhexyl)phthalate	50	46.44			93		70-130		
Fluoranthene	50	41.89			84		70-130		
Fluorene	50	35.53			71		70-130		
Hexachlorobenzene	50	45.98			92		70-130		
Hexachlorobutadiene	50	19.31			39*		70-130		
Hexachlorocyclopentadiene	100	19.05			19*		20-160		
Hexachloroethane	50	20.67			41		20-160		
Indeno(1,2,3-cd)pyrene	50	44.77			90		70-130		
Isophorone	50	43.67			87		70-130		
2-Methylnaphthalene	50	29.58			59*		70-130		
2-Methylphenol	50	38.75			77		70-130		
4-Methylphenol	50	37.24			74		20-160		
Naphthalene	50	32.69			65*		70-130		
1-Naphthylamine	100	41.28			41*		70-130		
2-Naphthylamine	100	34.23			34*		70-130		
2-Nitroaniline	50	49.24			98		70-130		
3-Nitroaniline	50	41.07			82		70-130		
4-Nitroaniline	50	30.19			60*		70-130		
Nitrobenzene	50	39.84			80		70-130		
2-Nitrophenol	50	47.59			95		70-130		
4-Nitrophenol	50	25.52			51		20-160		
N-Nitroso-di-n-propylamine	50	38.04			76		70-130		
N-Nitrosodiphenylamine	50	44.4			89		70-130		
Di-n-octylphthalate	50	42			84		70-130		
Pentachlorophenol	50	54.36			109		20-160		
Phenanthrene	50	41.73			83		70-130		
Phenol	50	22.07			44		20-160		
Pyrene	50	43.08			86		70-130		
o-Toluidine	50	30.01			60*		70-130		
2,4,5-Trichlorophenol	50	46.99			94		70-130		
2,4,6-Trichlorophenol	50	46.96			94		70-130		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 182150099A	Sample number(s): 9735525-9735528,9735530								
Ethane	58.44	58.16			100		85-115		
Ethene	60.85	59.96			99		83-115		
Methane	59.83	61.7			103		85-115		
Batch number: 182180099A	Sample number(s): 9735522-9735524								
Ethane	58.44	59.8			102		85-115		
Ethene	60.85	61.44			101		83-115		
Methane	59.83	63.87			107		85-115		

*- Outside of specification

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: E182231AA	Sample number(s): 9735522-9735524 UNSPK: 9735522									
1,4-Dioxane	1.0 U	25	25.23	25	26.51	101	106	80-130	5	30
Batch number: W182231AA	Sample number(s): 9735522-9735530 UNSPK: 9735522									
Acetone	12 U	300	227.9	300	214.8	76	72	60-140	6	20
Benzene	2.24	40	42.35	40	43	100	102	70-130	2	20
Bromodichloromethane	1 U	40	39.37	40	39.03	98	98	70-130	1	20
Bromoform	1 U	40	37.64	40	37.44	94	94	70-130	1	20
Bromomethane	1 U	40	31.72	40	30.85	79	77	60-140	3	20
2-Butanone	6 U	300	260.14	300	269.29	87	90	60-140	3	20
Carbon Disulfide	2 U	40	40.37	40	40.52	101	101	60-140	0	20
Carbon Tetrachloride	1 U	40	48.58	40	49.86	121	125	70-130	3	20
Chlorobenzene	154.29	40	137.15	40	171.95	-42*	44*	70-130	23*	20
Chloroethane	1 U	40	28.55	40	29.41	71	74	60-140	3	20
Chloroform	1 U	40	40.11	40	40.02	100	100	70-130	0	20
Chloromethane	1 U	40	26.97	40	26.92	67	67	60-140	0	20
Cyclohexane	4 U	40	45.78	40	45.57	114	114	70-130	0	20
1,2-Dibromo-3-chloropropane	4 U	40	41.57	40	44.35	104	111	60-140	6	20
Dibromochloromethane	1 U	40	39.57	40	39.27	99	98	70-130	1	20
1,2-Dibromoethane	1 U	40	37.6	40	37.21	94	93	70-130	1	20
1,2-Dichlorobenzene	2.13	40	39.23	40	40.31	93	95	70-130	3	20
1,3-Dichlorobenzene	2.48	40	40.63	40	41.13	95	97	70-130	1	20
1,4-Dichlorobenzene	12.48	40	46.73	40	49.58	86	93	70-130	6	20
Dichlorodifluoromethane	1 U	40	38.9	40	38.39	97	96	60-140	1	20
1,1-Dichloroethane	1 U	40	40.2	40	40.4	101	101	70-130	0	20
1,2-Dichloroethane	1 U	40	36.86	40	36.24	92	91	70-130	2	20
1,1-Dichloroethene	1 U	40	48.25	40	46.77	121	117	70-130	3	20
cis-1,2-Dichloroethene	1 U	40	42.63	40	42.64	107	107	70-130	0	20
trans-1,2-Dichloroethene	1 U	40	43.74	40	43.74	109	109	70-130	0	20
1,2-Dichloropropane	1 U	40	40.69	40	40.08	102	100	70-130	2	20
cis-1,3-Dichloropropene	1 U	40	38.76	40	39.39	97	98	70-130	2	20
trans-1,3-Dichloropropene	1 U	40	37.72	40	38.19	94	95	70-130	1	20
Ethylbenzene	62.69	40	62.97	40	88.78	1*	65*	70-130	34*	20
Freon 113	4 U	40	45.8	40	45.61	115	114	70-130	0	20
2-Hexanone	6 U	200	168.58	200	171.19	84	86	60-140	2	20
Isopropylbenzene	8.96	40	46.81	40	50.82	95	105	70-130	8	20
Methyl Acetate	2 U	40	34.27	40	35.29	86	88	70-130	3	20
Methyl Tertiary Butyl Ether	1 U	40	31.44	40	32.99	79	82	70-130	5	20
4-Methyl-2-pentanone	6 U	200	177.84	200	183.05	89	92	60-140	3	20
Methylcyclohexane	2 U	40	48.43	40	49.48	121	124	70-130	2	20
Methylene Chloride	1 U	40	44.46	40	44.15	111	110	70-130	1	20
Styrene	2 U	40	40.52	40	40.98	101	102	70-130	1	20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
1,1,2,2-Tetrachloroethane	1 U	40	33.44	40	34.34	84	86	70-130	3	20
Tetrachloroethene	1 U	40	46.39	40	46.07	116	115	70-130	1	20
Toluene	3.47	40	41.37	40	42.85	95	98	70-130	4	20
1,2,4-Trichlorobenzene	2 U	40	36.63	40	39.91	92	100	70-130	9	20
1,1,1-Trichloroethane	1 U	40	38.55	40	39.39	96	98	70-130	2	20
1,1,2-Trichloroethane	1 U	40	37.95	40	38.6	95	97	70-130	2	20
Trichloroethene	1 U	40	40.56	40	40.58	101	101	70-130	0	20
Trichlorofluoromethane	1 U	40	36.98	40	36.51	92	91	60-140	1	20
Vinyl Chloride	1 U	40	28.84	40	29.78	72	74	70-130	3	20
m+p-Xylene	73.08	80	132.39	80	152.17	74	99	70-130	14	20
o-Xylene	37.51	40	60.63	40	72.13	58*	87	70-130	17	20
Xylene (Total)	110.59	120	193.02	120	224.31	69*	95	70-130	15	20
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 18215WAO026	Sample number(s): 9735522-9735525,9735528,9735530 UNSPK: 9735522									
Acenaphthene	83.96	50.2	90.29	50.61	93.65	13*	19*	70-130	4	20
Acenaphthylene	0.843	50.2	44.9	50.61	47.12	88	91	70-130	5	20
Acetophenone	4 U	50.2	39.36	50.61	43.17	78	85	70-130	9	20
4-Aminobiphenyl	5 U	50.2	5 U	50.61	5 U	0*	0*	70-130	0	20
Aniline	3 U	50.2	23.52	50.61	28.21	47	56	20-160	18	20
Anthracene	2.67	50.2	45.79	50.61	50.58	86	95	70-130	10	20
Atrazine	2 U	50.2	52.42	50.61	51.67	104	102	70-130	1	20
Benzaldehyde	3 U	50.2	29.75	50.61	32.49	59	64	20-160	9	20
Benzydine	20 U	251	20 U	253.04	20 U	0*	0*	20-160	0	20
Benzo(a)anthracene	0.1 U	50.2	44.72	50.61	48.22	89	95	70-130	8	20
Benzo(a)pyrene	0.1 U	50.2	42.21	50.61	45.13	84	89	70-130	7	20
Benzo(b)fluoranthene	0.1 U	50.2	41.13	50.61	42.89	82	85	70-130	4	20
Benzo(g,h,i)perylene	0.1 U	50.2	39.45	50.61	43.42	79	86	70-130	10	20
Benzo(k)fluoranthene	0.1 U	50.2	39.28	50.61	42.08	78	83	70-130	7	20
1,1'-Biphenyl	3 U	50.2	40.71	50.61	44.14	81	87	70-130	8	20
4-Bromophenyl-phenylether	0.5 U	50.2	43.42	50.61	47.17	86	93	70-130	8	20
Butylbenzylphthalate	2 U	50.2	38.91	50.61	40.63	78	80	70-130	4	20
Di-n-butylphthalate	2 U	50.2	44	50.61	44.92	88	89	70-130	2	20
Caprolactam	5 U	50.2	14.19	50.61	15.33	28	30	20-160	8	20
Carbazole	112.59	50.2	100.75	50.61	97.24	-23*	-29*	70-130	4	20
4-Chloro-3-methylphenol	0.5 U	50.2	44.31	50.61	48.31	88	95	70-130	9	20
4-Chloroaniline	4 U	50.2	35.75	50.61	41.2	71	81	70-130	14	20
bis(2-Chloroethoxy)methane	0.5 U	50.2	43.71	50.61	48.06	87	95	70-130	9	20
bis(2-Chloroethyl)ether	0.5 U	50.2	35.91	50.61	38.91	72	77	70-130	8	20
2-Chloronaphthalene	0.4 U	50.2	42.28	50.61	44.7	84	88	70-130	6	20
2-Chlorophenol	0.534	50.2	35.79	50.61	40.8	70	80	20-160	13	20
4-Chlorophenyl-phenylether	0.5 U	50.2	38.75	50.61	40.43	77	80	70-130	4	20
2,2'-oxybis(1-Chloropropane)	0.5 U	50.2	33.9	50.61	37.15	68*	73	70-130	9	20

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Chrysene	0.1 U	50.2	44.45	50.61	45.4	89	90	70-130	2	20
Dibenz(a,h)anthracene	0.1 U	50.2	41.56	50.61	44.45	83	88	70-130	7	20
Dibenzofuran	50.48	50.2	69.91	50.61	71.69	39*	42*	70-130	3	20
3,3'-Dichlorobenzidine	3 U	50.2	35.21	50.61	37.19	70	73	70-130	5	20
2,4-Dichlorophenol	0.5 U	50.2	40.77	50.61	46.66	81	92	70-130	13	20
Diethylphthalate	2 U	50.2	32.05	50.61	34.58	64*	68*	70-130	8	20
2,4-Dimethylphenol	3 U	50.2	30.85	50.61	33.87	61*	67*	70-130	9	20
Dimethylphthalate	2 U	50.2	24.99	50.61	29.94	50*	59*	70-130	18	20
4,6-Dinitro-2-methylphenol	8 U	50.2	48.09	50.61	55.62	96	110	70-130	15	20
2,4-Dinitrophenol	14 U	100.4	94.95	101.21	99.83	95	99	20-160	5	20
2,4-Dinitrotoluene	1 U	50.2	37.98	50.61	42.95	76	85	70-130	12	20
2,6-Dinitrotoluene	0.5 U	50.2	43.18	50.61	49.09	86	97	70-130	13	20
Diphenyl ether	0.5 U	50.2	38.48	50.61	42.05	77	83	70-130	9	20
1,2-Diphenylhydrazine	0.5 U	50.2	52.24	50.61	53.61	104	106	70-130	3	20
bis(2-Ethylhexyl)phthalate	5 U	50.2	42.69	50.61	45.41	85	90	70-130	6	20
Fluoranthene	0.1 U	50.2	45.87	50.61	47.46	91	94	70-130	3	20
Fluorene	63.24	50.2	75.64	50.61	74.99	25*	23*	70-130	1	20
Hexachlorobenzene	0.1 U	50.2	51.29	50.61	52.92	102	105	70-130	3	20
Hexachlorobutadiene	0.5 U	50.2	20.65	50.61	23.01	41*	45*	70-130	11	20
Hexachlorocyclopentadiene	5 U	100.4	25.06	101.21	28.77	25	28	20-160	14	20
Hexachloroethane	1 U	50.2	22.16	50.61	24.16	44	48	20-160	9	20
Indeno(1,2,3-cd)pyrene	0.1 U	50.2	39.55	50.61	43.11	79	85	70-130	9	20
Isophorone	0.5 U	50.2	43.58	50.61	48.44	87	96	70-130	11	20
2-Methylnaphthalene	172.97	50.2	106.68	50.61	112.74	-131*	-118*	70-130	6	20
2-Methylphenol	0.5 U	50.2	32.74	50.61	36.74	65*	73	70-130	12	20
4-Methylphenol	0.5 U	50.2	32.83	50.61	36.51	65	72	20-160	11	20
Naphthalene	2396.9	50.2	670.65	50.61	689.75	-3438 (2)	-3372 (2)	70-130	3	20
1-Naphthylamine	8 U	100.4	47.94	101.21	50.67	48*	50*	70-130	6	20
2-Naphthylamine	7 U	100.4	32.64	101.21	35.69	33*	35*	70-130	9	20
2-Nitroaniline	2 U	50.2	54.18	50.61	55.64	108	110	70-130	3	20
3-Nitroaniline	3 U	50.2	45.69	50.61	44.07	91	87	70-130	4	20
4-Nitroaniline	0.9 U	50.2	32.88	50.61	36.74	66*	73	70-130	11	20
Nitrobenzene	0.5 U	50.2	40.39	50.61	45.24	80	89	70-130	11	20
2-Nitrophenol	3 U	50.2	44.49	50.61	54.08	89	107	70-130	19	20
4-Nitrophenol	10 U	50.2	29.45	50.61	31.33	59	62	20-160	6	20
N-Nitroso-di-n-propylamine	0.7 U	50.2	36.97	50.61	40.12	74	79	70-130	8	20
N-Nitrosodiphenylamine	0.7 U	50.2	50.76	50.61	53.8	101	106	70-130	6	20
Di-n-octylphthalate	5 U	50.2	37.45	50.61	40.26	75	80	70-130	7	20
Pentachlorophenol	1 U	50.2	53.98	50.61	61.33	108	121	20-160	13	20
Phenanthrene	20.46	50.2	60.73	50.61	58.19	80	75	70-130	4	20
Phenol	0.5 U	50.2	21.04	50.61	23.32	42	46	20-160	10	20
Pyrene	0.1 U	50.2	43.65	50.61	45.69	87	90	70-130	5	20
o-Toluidine	4 U	50.2	26.94	50.61	31.65	54*	63*	70-130	16	20

*- Outside of specification

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
2,4,5-Trichlorophenol	0.5 U	50.2	45.51	50.61	51.64	91	102	70-130	13	20
2,4,6-Trichlorophenol	0.5 U	50.2	44.21	50.61	48.68	88	96	70-130	10	20
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: 182180099A	Sample number(s): 9735522-9735524 UNSPK: 9735522									
Ethane	1.07	58.44	58.39	58.44	56.97	98	96	74-131	2	30
Ethene	1.13	60.85	68.36	60.85	65.48	110	106	72-133	4	30
Methane	2389.18	59.83	1807.02	59.83	1999.88	-972 (2)	-650 (2)	73-125	10	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1,4-Dioxane
Batch number: E182201AA

Toluene-d8

9735525	90
9735526	89
9735527	90
9735528	91
9735529	91
9735530	90
Blank	91
LCS	91

Limits: 80-120

Analysis Name: 1,4-Dioxane
Batch number: E182231AA

Toluene-d8

9735522	90
9735523	90
9735524	90
Blank	91
LCS	92
MS	90
MSD	90

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 1,4-Dioxane
Batch number: E182231AA

Limits: 80-120

Analysis Name: NJ SOM02.2 VOAs
Batch number: W182231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9735522	101	97	95	95
9735523	100	100	97	96
9735524	101	102	97	98
9735525	101	104	95	95
9735526	99	101	94	94
9735527	101	102	93	95
9735528	100	103	95	93
9735529	101	102	95	92
9735530	100	102	95	93
Blank	102	102	94	93
LCS	101	101	94	98
MS	100	100	97	96
MSD	101	102	97	98
Limits:	70-130	70-130	70-130	70-130

Analysis Name: NJ SOM02.2 SVs + Add'l Cmpds
Batch number: 18215WAO026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9735522	33	45	70	73	67	53
9735523	37	49	67	73	69	65
9735524	41	55	82	83	75	71
9735525	25	36	86	61	60	64
9735528	29	45	87	74	68	94
9735530	31	44	71	53	68	52
Blank	24	37	72	64	52	78
LCS	40	58	78	76	63	92
MS	37	49	67	73	69	65
MSD	41	55	82	83	75	71
Limits:	15-110	15-110	15-110	30-130	30-130	30-130

Analysis Name: NJ SOM02.2 SVs + Add'l Cmpds
Batch number: 18216WAY026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
9735526	26	36	58	58	41	76
9735527	19	29	48	51	49	68

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Quality Control Summary

Client Name: The Chemours Company FC, LLC
Reported: 08/30/2018 12:53

Group Number: 1972569

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: NJ SOM02.2 SVs + Add'l Cmpds
Batch number: 18216WAY026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
Blank	25	38	77	65	55	79
LCS	40	57	78	77	63	92
Limits:	15-110	15-110	15-110	30-130	30-130	30-130

Analysis Name: Dissolved Gases (3)
Batch number: 182150099A

	Propene
9735525	80
9735526	80
9735527	79
9735528	90
9735530	77
Blank	101
LCS	102
Limits:	57-128

Analysis Name: Dissolved Gases (3)
Batch number: 182180099A

	Propene
9735522	95
9735523	93
9735524	89
Blank	104
LCS	103
MS	93
MSD	89
Limits:	57-128

*- Outside of specification

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Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Eurofins Lancaster Laboratories Use Only

Group No.: 1972569 Sample Nos.: 9735522-30

Acc't: 07032

SF: 286028

SCR No.: 228285

Cooler No.: _____

38981

Cooler Temperature upon receipt: 14 °C

Container No.: 2

Facility Name: Chambers Works		Project Manager: Tom McGee		Analyses Required										Comments:						
Facility Contact: Tom McGee		Facility Contact Phone No.: 856-540-2402		TCL Semivolatiles (8270D)										DKQP						
Facility Address: Chambers Works Plant		Job No.: 77201000-WH06507141																		
Rt 130 & Canal Road		Release No.:																		
Deepwater NJ 08023		PO Number: LBIO-67047																		
Sampler(s): <u>J. GOMES, A. Treglia, B. Ammerman</u>																				
Project Name: SC SPB WELL SAMPLING 2H18														Condition upon receipt:						
Sample Identification		Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	No.											<u>Intact</u>		
SPBGW2H18-F05-M04B		<u>8-2-18</u>	<u>0817</u>	WW	250	None	2	X												
SPBGW2H18-F05-M04B				WW	250	None	2	X											MS	
SPBGW2H18-F05-M04B				WW	250	None	2	X											MSD	
SPBGW2H18-F05-M05B			<u>0835</u>	WW	250	None	2	X												
SPBGW2H18-G05-M06B			<u>1012</u>	WW	250	None	2	X												
SPBGW2H18-G05-M07B			<u>1035</u>	WW	250	None	2	X												
SPBGW2H18-EB-18			<u>0800</u>	WW	250	None	2	X												
<u>SPBGW2H18-F05-M06B</u>		<u>8-2-18</u>	<u>1137</u>	WW	250	None	2	X												
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>		Special Instructions:																		
Bottles Relinquished by: <u>Bottle Storage MP</u>		Date: <u>8-20-18</u>	Time: <u>1515</u>	Bottles Received by: _____										Date: _____	Time: _____					
Bottles Relinquished by: <u>[Signature]</u>		Date: <u>8/2/18</u>	Time: <u>1500</u>	Bottles Received by: _____										Date: _____	Time: _____					
Bottles Relinquished by: _____		Date: _____	Time: _____	Bottles Received by: _____										Date: _____	Time: _____					
Bottles Relinquished by: _____		Date: _____	Time: _____	Bottles Received by: <u>[Signature]</u>										Date: <u>8/2/18</u>	Time: <u>1840</u>					



Client: Chemours

Delivery and Receipt Information

Delivery Method:	<u>ELLE Courier</u>	Arrival Timestamp:	<u>08/02/2018 18:40</u>
Number of Packages:	<u>2</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>NJ</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace \geq 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Simon Nies (25112) at 20:10 on 08/02/2018

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT42-03	2.0	DT	Wet	Y	Bagged	N
2	DT42-03	1.4	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.